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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/823,003	04/12/2004	Kumiko Hirayama	10873.1429US01	4702
23552	7590 08/02/2		EXAMINER	
MERCHANT & GOULD PC			KUGEL, TIMOTHY J	
P.O. BOX 29 MINNEAPO	03 LIS, MN 55402-09		ART UNIT	PAPER NUMBER
	,		1712	
			DATE MAILED: 08/02/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	•
	10/823,003	HIRAYAMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Timothy J. Kugel	1712	
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet w	ith the correspondence address -	·•
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL  - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailling date of this communic.  - If NO period for reply is specified above, the maximum statuto.  - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNI 7 CFR 1.136(a). In no event, however, may a cation. by period will apply and will expire SIX (6) MOI by statute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed of the case o	This action is non-final.  allowance except for formal mat		s is
Disposition of Claims			
4) ⊠ Claim(s) <u>1-20</u> is/are pending in the app 4a) Of the above claim(s) is/are v 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-20</u> are subject to restriction is	withdrawn from consideration.		
_	Svominor		
<ul> <li>9) The specification is objected to by the E</li> <li>10) The drawing(s) filed on is/are: a)</li> <li>Applicant may not request that any objection</li> <li>Replacement drawing sheet(s) including the</li> <li>11) The oath or declaration is objected to by</li> </ul>	) accepted or b) objected to on to the drawing(s) be held in abeya e correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.12	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:  1. Certified copies of the priority do:  2. Certified copies of the priority do:  3. Copies of the certified copies of the application from the International  * See the attached detailed Office action for	cuments have been received. cuments have been received in A the priority documents have beer I Bureau (PCT Rule 17.2(a)).	Application No  n received in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date	9-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 	

Application/Control Number: 10/823,003 Page 2

Art Unit: 1712

### **DETAILED ACTION**

1. Claims 1-20 are pending as filed 12 April 2004.

### Restriction Requirement

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-16, drawn to a member for a circuit board, classified in class
     428, subclass 411.1.
  - Claims 17-20, drawn to a method for manufacturing a circuit board, classified in class 205, subclass 125.

The inventions are distinct, each from the other because of the following reasons:

- 3. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process as claimed can be used to make circuit boards not requiring the composite material or mold release film as claimed.
- 4. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

# **Election of Species Requirement**

- 5. Should applicant elect to proceed with the claims of Group I, this application contains claims directed to patentably distinct species of each of the following:
  - a. The heat absorbing material

Application/Control Number: 10/823,003 Page 3

Art Unit: 1712

b. The mold release film resin

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species of each of the above for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

6. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

## Election(s)

7. A telephone call was made to Douglas Mueller on 27 July 2006 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

### Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Kugel whose telephone number is (571) 272-1460. The examiner can normally be reached on 6:00 AM - 4:00 PM Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone

Application/Control Number: 10/823,003 Page 5

Art Unit: 1712

number for the organization where this application or proceeding is assigned is 571-273-8300.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TJK GAU 1712

ROBERT E.L. SELLERS
PRIMARY EXAMINER